



Jefferson Lab Alignment Group

Data Transmittal

TO: J. P. Chen, J. LeRose, A. Deur	DATE : Sep 16, 2003
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DETAILS:

Below are the results of the Sep 10th post run survey performed on the Hall A hadron large aperture at 9°. Note that the aperture was measured after it was removed from the pivot. The location of the aperture during the run has been calculated using the as found coordinates on the sieve slit tooling balls and the measured position of the aperture relative to the tooling balls. A positive X is to the beam left, positive Y is up, and positive Z is downstream (in millimeters). The ideal X values for the slits are calculated using the as found distance of the slit from the nominal He3 target, i.e. (Dist x sin 9°). For the reported locations and deltas the Z-axis runs along the main Hall A beam line, not the 9° line. Also included is the height and width of the aperture measured for the 6° and recent 9° run.

	Z	X	Y
As-found (downstream face)	823.30	-131.60	-1.98
Ideal		-130.43	0.00
Delta		-1.17	-1.98
Repeat	823.15	-131.40	-1.99
Ideal		-130.40	0.00
Delta		-1.00	-1.99

	HEIGHT	WIDTH
July 6° run.	99.42	55.12
August 9° run.	99.72	55.61